



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 136 202 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
20.10.2004 Bulletin 2004/43

(51) Int Cl. 7: B26D 5/20

(43) Date of publication A2:
26.09.2001 Bulletin 2001/39

(21) Application number: 01850047.0

(22) Date of filing: 15.03.2001

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR

Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 16.03.2000 SE 0000861

(72) Inventor: Leijon, Thomas
271 92 Ystad (SE)

(71) Applicant: FAS Converting Machinery AB
271 00 Ystad (SE)

(74) Representative: Rostovanyi, Peter et al
AWAPATENT AB,
Box 5117
200 71 Malmö (SE)

(54) Method and machine for controlling the speed of rotation of a cutting roll

(57) In a method for working an elongate web of material (2), use is made of a machine (1) which comprises a feeding device (5, 6) for feeding the web (2) at a given speed and a cutting device (5, 7) for making cuts in the web (2). The cutting device (5, 7) comprises a rotary backing roll (5) and a rotary cutting roll (7) with a projecting cutting means (8). The cutting roll (7) is adapted to move, during a first part of its revolution, the cutting means (8) into engagement with the backing roll (5) to form the cuts in the web (2) and, during a second part of its revolution, define with the backing roll (5) a gap through which the web (2) moves essentially unimpededly. A control means (10) is adapted to control, preferably in an infinitely variable manner, the speed of rotation of the cutting roll (7) relative to the speed of the web (2) during the second part of the revolution for optional adjustment of the distance between succeeding cuts in the web (2).

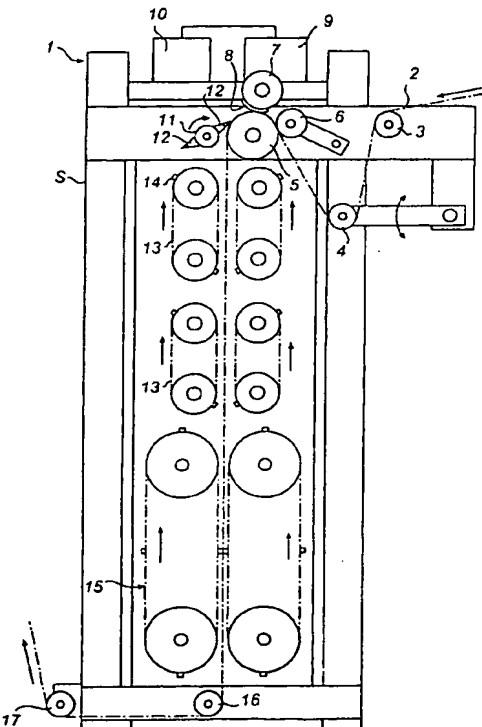


Fig. 1a

European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 85 0047

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.)
X	US 4 333 790 A (SCHAFFRON HELMUT T) 8 June 1982 (1982-06-08)	1,2,4, 10-16, 18,26-30	B26D5/20 B26D5/20 B31B19/00
Y	* the whole document *	3,5-9, 17,19-25	B26F1/38
<hr/>			
X	US 4 332 578 A (VAN DER MEULEN LEONARD) 1 June 1982 (1982-06-01)	1,2,15, 16	
Y	* claim 1; figures 1,2 *	3,17	
A		4-14, 18-30	
<hr/>			
X	EP 0 758 580 A (OSTMA MASCHINENBAU GMBH ; MARBACH WERKZEUGBAU GMBH (DE)) 19 February 1997 (1997-02-19)	1,2,15, 16	
Y	* the whole document *	9,25	
A		3-8, 10-14, 17-24, 26-30	
<hr/>			
Y	US 5 109 741 A (FUCHS SIEGFRIED) 5 May 1992 (1992-05-05)	5-8, 19-24	TECHNICAL FIELDS SEARCHED (Int.Cl.)
A	* abstract; figures 1,2,9 *	1-4, 9-18, 25-30	B26D B31B B26F
<hr/>			
A	US 4 170 155 A (MATSUMOTO YUTAKA ET AL) 9 October 1979 (1979-10-09) * the whole document *	1-30	
<hr/>			
A	DE 40 34 044 A (LEHMACHER & SOHN MASCH) 2 May 1991 (1991-05-02) * the whole document *	1-30	
<hr/>			
A,D	EP 0 847 851 A (TENNECO PACKAGING INC) 17 June 1998 (1998-06-17) * the whole document *	1-30	
<hr/>			
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
Munich	25 August 2004	Wimmer, M	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 85 0047

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
 The members are as contained in the European Patent Office EDP file on
 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-08-2004

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4333790	A	08-06-1982		NONE		
US 4332578	A	01-06-1982	NL DE	7906324 A 3030707 A1	24-02-1981 26-03-1981	
EP 0758580	A	19-02-1997	DE AU CA EP HU TR	19530025 A1 6213696 A 2183366 A1 0758580 A2 9602259 A2 970209 A2	20-02-1997 20-02-1997 17-02-1997 19-02-1997 28-05-1997 21-03-1997	
US 5109741	A	05-05-1992	DE DE EP	4000078 A1 59009657 D1 0436142 A2	04-07-1991 19-10-1995 10-07-1991	
US 4170155	A	09-10-1979		NONE		
DE 4034044	A	02-05-1991	DE	4034044 A1	02-05-1991	
EP 0847851	A	17-06-1998	US DE DE EP	5935367 A 69716390 D1 69716390 T2 0847851 A2	10-08-1999 21-11-2002 06-03-2003 17-06-1998	